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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,624	01/28/2004	David Paul Miller	USG 3399	5781
32983	7590	08/23/2006	EXAMINER	
DONALD E. EGAN 273 STONEGATE ROAD CLARENDON HILLS, IL 60514			BUTLER, PATRICK	
			ART UNIT	PAPER NUMBER
			1732	

DATE MAILED: 08/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/767,624

Applicant(s)

MILLER ET AL.

Examiner

Patrick Butler

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 21 June 2006 has been entered.

Response to Amendment

The Applicant's Amendments and Accompanying Remarks, filed 21 June 2006, have been entered and have been carefully considered. No claims are new, Claim 5 is amended, Claims 1, 3, and 4 are canceled, and Claims 5-14 are pending.

Despite these advances, the invention as currently claimed is not found to be patentable for reasons herein below.

Specification

The amendment filed 21 June 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: The new selected formula for the paper makers alum.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,320,677 (Baig) in view of U.S. Patent No. 3,835,219 (Jaunarajs et al.).

With respect to Claim 5, Baig teaches a method of producing a composite material (in an improved process for producing a composite product) including mixing wood fibers, gypsum and water to form a dilute slurry (mixing water, gypsum and a cellulosic fiber to form a dilute slurry); processing the slurry in a pressure vessel at a temperature sufficient to convert the gypsum to calcium sulfate alpha hemihydrate while continuously agitating the slurry with gentle stirring or mixing to break up any fiber clumps and keep all of the fibers in suspension (heating the slurry, under pressure, to form acicular calcium sulfate alpha hemihydrate crystals); removing the calcined slurry from the pressure vessel; substantially dewatering the slurry to form a filter cake (substantially dewatering the hot slurry); pressing, molding or otherwise shaping the dewatered filter cake (shaping the dewatered slurry to form a composite product before rehydrating the hemihydrate back to gypsum); rehydrating the filter cake by allowing the filter cake to cool; and drying the filter cake to remove the remaining water from the rehydrated filter cake (abstract; column 4, lines 26-59). Baig further teaches that crystal

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modifiers, such as for example organic acids, can be added to the slurry while being agitated in the pressure vessel to stimulate or retard crystallization or to lower the calcining temperature (adding a crystal modifier to said dilute slurry and heating said slurry at a reduced temperature and/or for a reduced time to form acicular calcium sulfate alpha hemihydrate crystals) (column 6, lines 41-58).

Although Baig teaches the addition of a crystal modifier to lower the calcining temperature as claimed, Baig does not specifically teach the crystal modifiers set forth in claim 5. However, Jaunarajs et al. teach a method for the preparation of fibrous soluble calcium sulfate anhydrite including forming an aqueous suspension of gypsum including a small amount of a crystal habit modifier which is suitable for the formation of fibrous soluble anhydrite and converting the suspension to fibrous soluble hemihydrate by reaction in a pressure vessel in the presence of saturated steam at a temperature in the range from 140°C to 200°C for a period of up to 3.0 hours to form fibers having aspect ratios in the range of from 10:1 to 100:1 (the aspect ratio of said hemihydrate crystals is increased to at least 5:1) wherein the crystal habit modifier is acids and salts thereof and other salts such as sodium chloride (said crystal modifier is ... chlorine) (col. 2, lines 24-59; col. 3, lines 10-19). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made and one of ordinary skill would have been motivated to use zinc sulfate as the crystal modifier in the process of Baig as taught by Jaunarajs et al. to provide more accurate and more extensive control of the crystal formation (e.g., the aspect ratio) in the process of Baig. With regard to the crystal modifier causing an increase in the aspect ratio of the crystals in the process of

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Baig in view of Jaunarajs et al. as set forth in claim 5, the examiner stipulates that one of ordinary skill in the art would have obviously recognized that aspect ratio of the crystals was increased by the addition of the crystal habit modifier because the process of Baig in view of Jaunarajs et al. would be capable of producing aspect ratios within the claimed range as set forth above (see column 2, lines 38-42 of Jaunarajs et al.).

Claims 3, 4, 7 and 8

The discussion of Baig and Jaunarajs et al. as applied to claim 5 and 6 above applies herein.

Although Baig teaches the addition of a crystal modifier to lower the calcining temperature as claimed, Baig does not specifically teach that the amount of crystal modifier is from about 0.05% to about 5%, or more particularly about 0.1% to about 1% by weight based on the weight of gypsum. However, Jaunarajs et al. further teach that the crystal habit modifier is present in an amount of from 0.1 to 5 weight percent, preferably 0.25 to 1.5 percent (the amount of crystal modifier is from about 0.05% to about 5% by weight, based on the weight of gypsum; the amount of crystal modifier is from about 0.1% to about 1% by weight, based on the weight of gypsum) (column 3, lines 17-19). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made and one of ordinary skill would have been motivated to use zinc sulfate, in the claimed amounts, as the crystal modifier in the process of Baig as taught by Jaunarajs et al. to provide more accurate and more extensive control of the crystal formation (e.g., the aspect ratio) in the process of Baig.

Claims 9-14

As the process of Baig does not include interruptions of steps or sequence, the process is interpreted to be continuously performed. Moreover, the process is described as continuous (see Col. 5 line 1-4). Baig teaches a method of continuously producing a composite material (in an improved process for producing a composite product) including mixing wood fibers, gypsum and water to form a dilute slurry (mixing water, gypsum and a cellulosic fiber to form a dilute slurry); processing the slurry in a pressure vessel at a temperature sufficient to convert the gypsum to calcium sulfate alpha hemihydrate while continuously agitating the slurry with gentle stirring or mixing to break up any fiber clumps and keep all of the fibers in suspension (heating the slurry, under pressure, to form acicular calcium sulfate alpha hemihydrate crystals); removing the calcined slurry from the pressure vessel; substantially dewatering the slurry to form a filter cake (substantially dewatering the hot slurry); pressing, molding or otherwise shaping the dewatered filter cake (shaping the dewatered slurry to form a composite product before rehydrating the hemihydrate back to gypsum); rehydrating the filter cake by allowing the filter cake to cool; and drying the filter cake to remove the remaining water from the rehydrated filter cake (abstract; column 4, lines 26-59). Baig further teaches that crystal modifiers, such as for example organic acids, can be added to the slurry while being agitated in the pressure vessel to stimulate or retard crystallization or to lower the calcining temperature (column 6, lines 41-58).

Although Baig teaches the addition of a crystal modifier, Baig does not specifically teach the crystal modifier is alum. Baig further does not teach that the

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aspect ratio is maintained between 5:1 and 50:1 as set forth in claims 10-12. However, Jaunaraajs et al. teach a method for the preparation of fibrous soluble calcium sulfate anhydrite including forming an aqueous suspension of gypsum including a small amount of a crystal habit modifier which is suitable for the formation of fibrous soluble anhydrite and converting the suspension to fibrous soluble hemihydrate by reaction in a pressure vessel in the presence of saturated steam at a temperature in the range from 140°C to 200°C for a period of up to 3.0 hours to form fibers having aspect ratios in the range of from 10:1 to 100:1 (said first selected value is at least 5:1; said first selected value is at least 10:1; said second selected value is not greater than 50:1; the amount of alum being sufficient to maintain the aspect ratio of said crystals to at least about 5:1 and no greater than about 50:1; the amount of alum adjusted to maintain the aspect ratio of said crystals to at least about 10:1 and no greater than about 50:1) wherein the crystal habit modifier is acids and salts thereof and other salts such as sodium chloride, sodium sulfate, aluminum sulfate (alum) and zinc sulfate (column 2, lines 24-59). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made and one of ordinary skill would have been motivated to use alum as the crystal modifier in the process of Baig to provide a product having an aspect ratio in the claimed range as taught by Jaunaraajs et al. to provide more accurate and more extensive control of the crystal formation (e.g., the aspect ratio) in the process of Baig.

With regard to the step of "monitoring the aspect ratio" set forth in claims 9 and 13, the examiner stipulates that one of ordinary skill in the art when viewing the teachings of Baig and Jaunaraajs et al. as a whole would have obviously recognized that

the aspect ratio must intrinsically be monitored in some type of fashion in the process of Baig in view of Jaunaraajs et al., even if not specifically stated, to assure that the aspect ratio is maintained in the desired and claimed range (e.g., 10:1 to 50:1). The process of Baig in view of Jaunaraajs et al. would teach the broadly claimed monitoring step of claims 9 and 13.

With regard to the “continuously monitoring” set forth in Claims 9 and 13, the Baig as the process is continuous and the monitoring is done as part of the process, then the monitoring would necessarily be continuous as well.

With regard to the steps of “increasing the amount of alum” and “decreasing the amount of alum” set forth in claim 9, the examiner stipulates that these steps are optional because they are only required *when* the monitoring indicates that the aspect ratio is out of the claimed range. If the aspect ratio was constantly maintained within the claimed range, as would obviously be desired in the process of Baig in view of Jaunaraajs et al. to minimize the amount of waste product, the claimed steps of “increasing the amount of alum” and “decreasing the amount of alum” would not be required, and therefore would be optional. As such, the process of Baig in view of Jaunaraajs et al. is not required to teach the optional steps of adjusting the amount of the crystal modifier (i.e., alum) as set forth in claim 9. However, even if the steps of adjusting the amount of the crystal modifier are not optional, the steps would have been obvious as further discussed with regard to claim 13 below.

With regard to the step of “adjusting the amount of alum used to form said slurry” set forth in claim 13, the examiner stipulates that one of ordinary skill in the art, when

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viewing the teachings of Baig and Jaunarajs et al. as a whole, would have obviously recognized that the amount of crystal modifier (i.e., alum) in the process of Baig in view of Jaunarajs et al. must intrinsically be adjusted in some fashion during the process of Baig in view of Jaunarajs et al., even if not specifically stated, to maintain the aspect ratio within the desired and claimed range (e.g., 10:1 to 50:1). If the amount of crystal modifier was not accurately set and not increased and/or decreased as needed during the process of Baig in view of Jaunarajs et al., the product formed would not have the desired characteristics and a great amount of undesired, waste product would be generated. Note that claim 13, as currently written, does not require the steps of "monitoring the aspect ratio" and "adjusting the amount of alum" to be interrelated (e.g., adjusting in response to the monitoring).

Claims 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,320,677 (Baig) in view of U.S. Patent No. 3,835,219 (Jaunarajs et al.) and Spiring (Total Quality Management Vol. 6, No. 1, 1995, Pages 21-33).

Claims 9-14

As the process of Baig does not include interruptions of steps or sequence, the process is interpreted to be continuously performed. Moreover, the process is described as continuous (see Col. 5 line 1-4). Baig teaches a method of continuously producing a composite material (in an improved process for producing a composite product) including mixing wood fibers, gypsum and water to form a dilute slurry (mixing water, gypsum and a cellulosic fiber to form a dilute slurry); processing the slurry in a pressure vessel at a temperature sufficient to convert the gypsum to calcium sulfate

alpha hemihydrate while continuously agitating the slurry with gentle stirring or mixing to break up any fiber clumps and keep all of the fibers in suspension (heating the slurry, under pressure, to form acicular calcium sulfate alpha hemihydrate crystals); removing the calcined slurry from the pressure vessel; substantially dewatering the slurry to form a filter cake (substantially dewatering the hot slurry); pressing, molding or otherwise shaping the dewatered filter cake (shaping the dewatered slurry to form a composite product before rehydrating the hemihydrate back to gypsum); rehydrating the filter cake by allowing the filter cake to cool; and drying the filter cake to remove the remaining water from the rehydrated filter cake (abstract; column 4, lines 26-59). Baig further teaches that crystal modifiers, such as for example organic acids, can be added to the slurry while being agitated in the pressure vessel to stimulate or retard crystallization or to lower the calcining temperature (column 6, lines 41-58).

Although Baig teaches the addition of a crystal modifier, Baig does not specifically teach the crystal modifier is alum. Baig further does not teach that the aspect ratio is maintained between 5:1 and 50:1 as set forth in claims 10-12. However, Jaunarajs et al. teach a method for the preparation of fibrous soluble calcium sulfate anhydrite including forming an aqueous suspension of gypsum including a small amount of a crystal habit modifier which is suitable for the formation of fibrous soluble anhydrite and converting the suspension to fibrous soluble hemihydrate by reaction in a pressure vessel in the presence of saturated steam at a temperature in the range from 140°C to 200°C for a period of up to 3.0 hours to form fibers having aspect ratios in the range of from 10:1 to 100:1 (said first selected value is at least 5:1; said first selected value is at

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least 10:1; said second selected value is not greater than 50:1; the amount of alum being sufficient to maintain the aspect ratio of said crystals to at least about 5:1 and no greater than about 50:1; the amount of alum adjusted to maintain the aspect ratio of said crystals to at least about 10:1 and no greater than about 50:1) wherein the crystal habit modifier is acids and salts thereof and other salts such as sodium chloride, sodium sulfate, aluminum sulfate (alum) and zinc sulfate (column 2, lines 24-59). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made and one of ordinary skill would have been motivated to use alum as the crystal modifier in the process of Baig to provide a product having an aspect ratio in the claimed range as taught by Jaunarajs et al. to provide more accurate and more extensive control of the crystal formation (e.g., the aspect ratio) in the process of Baig.

With regard to the step of "monitoring the aspect ratio" set forth in claims 9 and 13, the examiner stipulates that one of ordinary skill in the art when viewing the teachings of Baig and Jaunarajs et al. as a whole would have obviously recognized that the aspect ratio must intrinsically be monitored in some type of fashion in the process of Baig in view of Jaunarajs et al., even if not specifically stated, to assure that the aspect ratio is maintained in the desired and claimed range (e.g., 10:1 to 50:1). The process of Baig in view of Jaunarajs et al. would teach the broadly claimed monitoring step of claims 9 and 13.

With regard to the steps of "increasing the amount of alum" and "decreasing the amount of alum" set forth in claim 9, the examiner stipulates that these steps are optional because they are only required *when* the monitoring indicates that the aspect

ratio is out of the claimed range. If the aspect ratio was constantly maintained within the claimed range, as would obviously be desired in the process of Baig in view of Jaunaraajs et al. to minimize the amount of waste product, the claimed steps of "increasing the amount of alum" and "decreasing the amount of alum" would not be required, and therefore would be optional. As such, the process of Baig in view of Jaunaraajs et al. is not required to teach the optional steps of adjusting the amount of the crystal modifier (i.e., alum) as set forth in claim 9. However, even if the steps of adjusting the amount of the crystal modifier are not optional, the steps would have been obvious as further discussed with regard to claim 13 below.

With regard to the step of "adjusting the amount of alum used to form said slurry" set forth in claim 13, the examiner stipulates that one of ordinary skill in the art, when viewing the teachings of Baig and Jaunaraajs et al. as a whole, would have obviously recognized that the amount of crystal modifier (i.e., alum) in the process of Baig in view of Jaunaraajs et al. must intrinsically be adjusted in some fashion during the process of Baig in view of Jaunaraajs et al., even if not specifically stated, to maintain the aspect ratio within the desired and claimed range (e.g., 10:1 to 50:1). If the amount of crystal modifier was not accurately set and not increased and/or decreased as needed during the process of Baig in view of Jaunaraajs et al., the product formed would not have the desired characteristics and a great amount of undesired, waste product would be generated. Note that claim 13, as currently written, does not require the steps of "monitoring the aspect ratio" and "adjusting the amount of alum" to be interrelated (e.g., adjusting in response to the monitoring).

With regard to the “continuously monitoring” set forth in Claims 9 and 13, the Baig as the process is continuous and the monitoring is done as part of the process, then the monitoring would necessarily be continuous as well. Moreover, Spiring teaches continuously monitoring of a process’s ability/capability. As the process ability/capability is a function of the process variables, Spiring teaches continuously monitoring of the process variables, particularly via control chart (See Spiring, Abstract, page 7, second paragraph of Introduction page 21, third new paragraph page 22).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Spiring’s continuous process monitoring with the process as taught by Baig and Jaunaraajs in order to assess the ability of a process to meet customer requirements/attain proper output values.

Response to Arguments

Applicant's arguments filed 21 June 2006 have been fully considered but they are not persuasive.

Applicant argues with respect to the 35 USC 103(a) rejections. Applicant’s arguments appear to be on the grounds that:

- 1) Baig fails to teach crystal modifiers for reasons of affecting aspect ratio of the crystals.
- 2) Baig fails to teach aluminum chloride, chlorine, or alum for any purpose.
- 3) Jaunaraajs avoids and excludes the formation of any calcium sulfate hemihydrate.

4) Most crystal habit modifiers disclosed by Jaunarajs are organic, although several additional inorganic ones are cited, but not aluminum chloride or chlorine.

5) Jaunarajs fails to teach crystal modifiers for reasons of affecting aspect ratio of the crystals.

6) Jaunarajs makes anhydrite, not the hemihydrate, which is needed to easily rehydrate in a short time.

7) Jaunarajs's fibers would not be suitable in additional processes such as melting and molding. Thus, the fibers would not be incorporated into Baig.

8) The incorporation of Jaunarajs's process would make a different product.

The Applicant's arguments are addressed as follows:

1 and 5) Baig teaches that crystal modifiers, such as for example organic acids, can be added to the slurry while being agitated in the pressure vessel to stimulate or retard crystallization or to lower the calcining temperature (column 6, lines 41-58). Since crystallization is growth of crystals, controlling the crystallization includes controlling the growth. As Jaunarajs teaches the size to grow to and the aspect ratio, the controlled crystallization would control growth. Since the fibrous length grows, the calculated ratio would increase accordingly.

Moreover, the crystal modifiers are not described as fillers and are not simply listed as present without indicating function, such as simply describing the composition. Instead, they are described as their function of modifying the crystal and further clarified as controlling crystallization even to the extent to modifying the temperature of calcining.

2 and 4) Applicant's arguments with respect to claiming only aluminum or aluminum chloride have been considered but are moot in view of the above rejection's direction to Jaunara's teaching of sodium chloride (chlorine).

3, 7, and 8) Jaunara's process beyond that which is relied upon was not relied upon for combination. Therefore, subsequent process steps or compositions would come from Baig.

Moreover, Jaunara is relied upon to clearly teach "forming fibers of soluble calcium sulfate hemihydrate" (see col. 2, lines 38 and 39).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., melting and molding; fiber performance during melting and molding; and success in melting and molding) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

5) As stated in the second full paragraph of page six and continuing on page 7 of the Office Action dated 15 April 2006 and again within the last action, it is well known and recognized that the aspect ratio must intrinsically be monitored in some type of fashion in the process of Baig in view of Jaunara et al., even if not specifically stated, to assure that the aspect ratio is maintained in the desired and claimed range (e.g., 10:1 to 50:1). Since applicant has not contested this position, which is independent of Baig and Jaunara's content, it is taken as concession. Therefore, the official notice is now considered admitted prior art.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Butler whose telephone number is (571) 272-8517. The examiner can normally be reached on Mo.-Th. 7:30 a.m. - 5 p.m. and alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Patrick Butler
Assistant Examiner
Art Unit 1732



CHRISTINA JOHNSON
PRIMARY EXAMINER
8/21/06